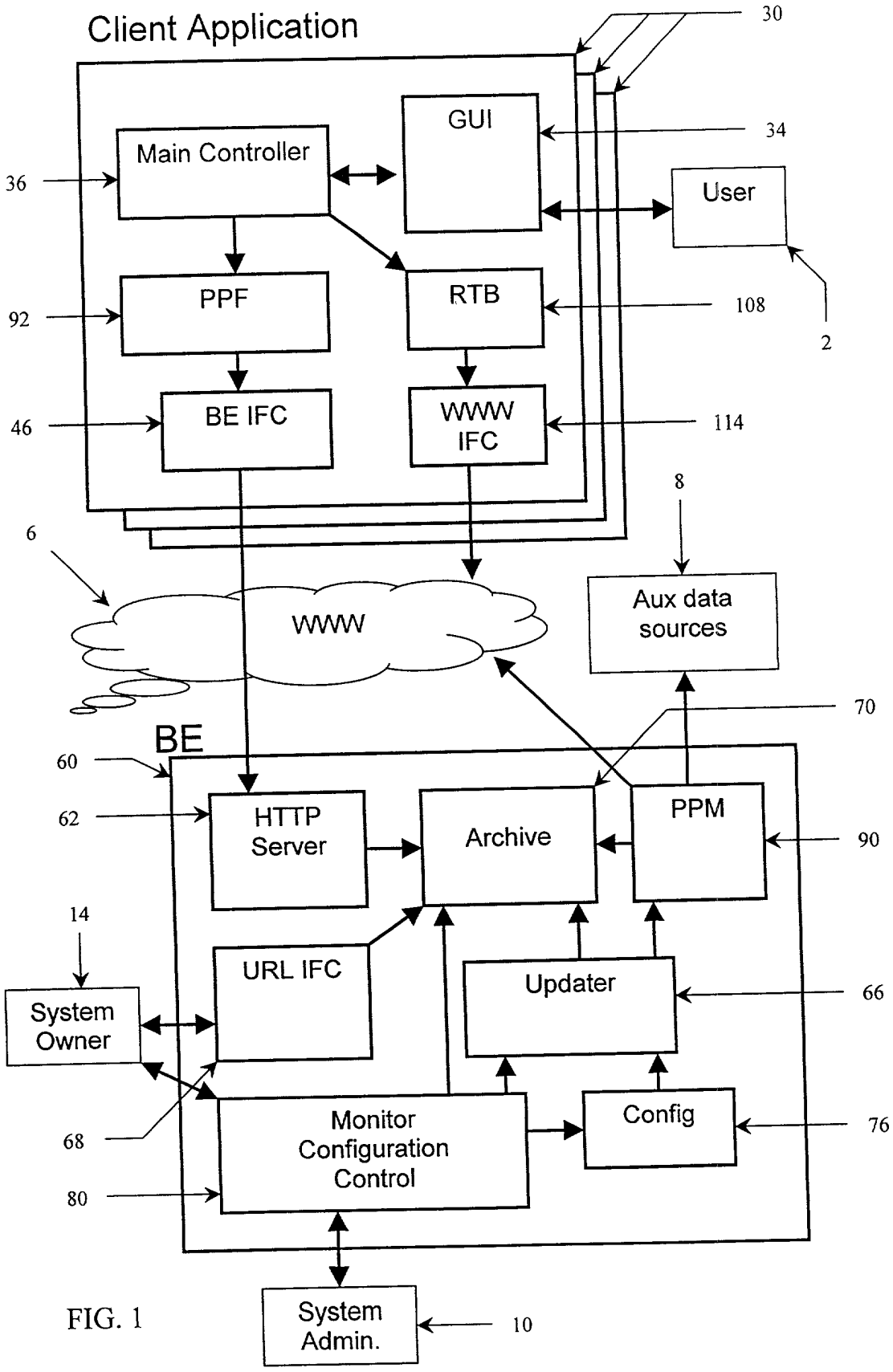
Client Application
30
GUI
34
Main Controller
36
User
PPF
92
RTB
108
2
BE IFC
46
WWW IFC
114
8
6
WWW
Aux data sources
70
BE
60
HTTP Server
62
Archive
PPM
90
14
URL IFC
Updater
66
System Owner
68
Monitor Configuration Control
Config
76
80
System Admin.
10

FIG. 1

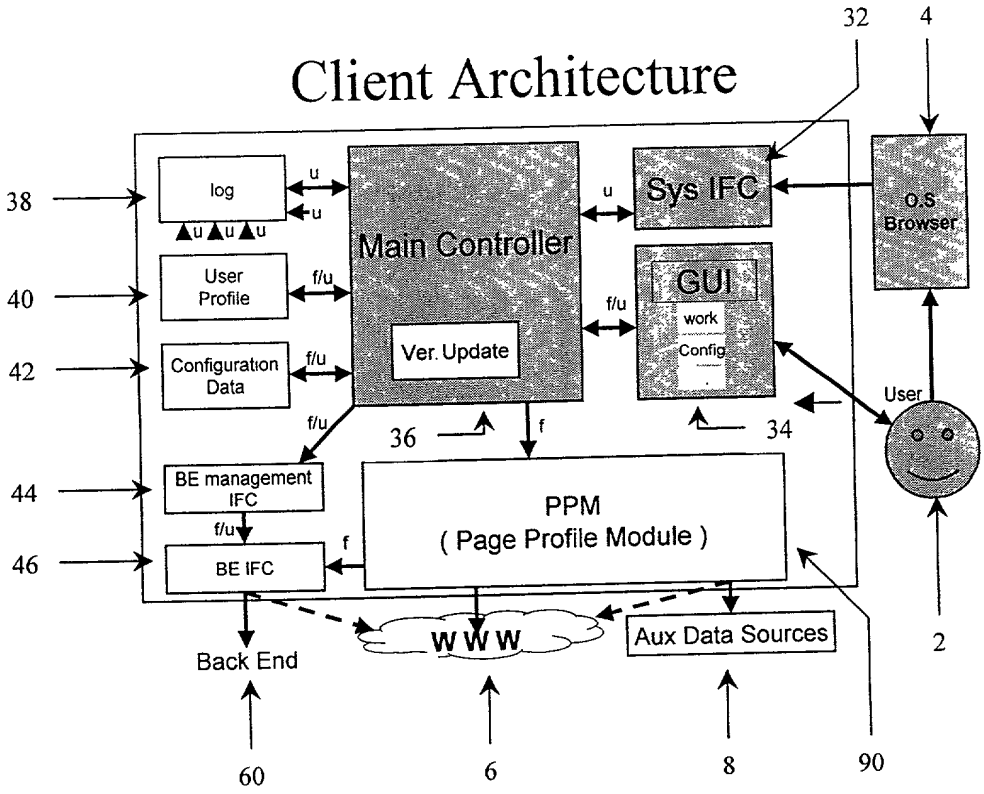
Client Architecture
32
4
38
40
42
44
46
log
User Profile
Configuration Data
BE management IFC
BE IFC
Main Controller
Ver. Update
Sys IFC
GUI
work
Config
O.S Browser
User
PPM
(Page Profile Module)
WWW
Aux Data Sources
Back End
36
34
2
60
6
8
90

FIG. 2

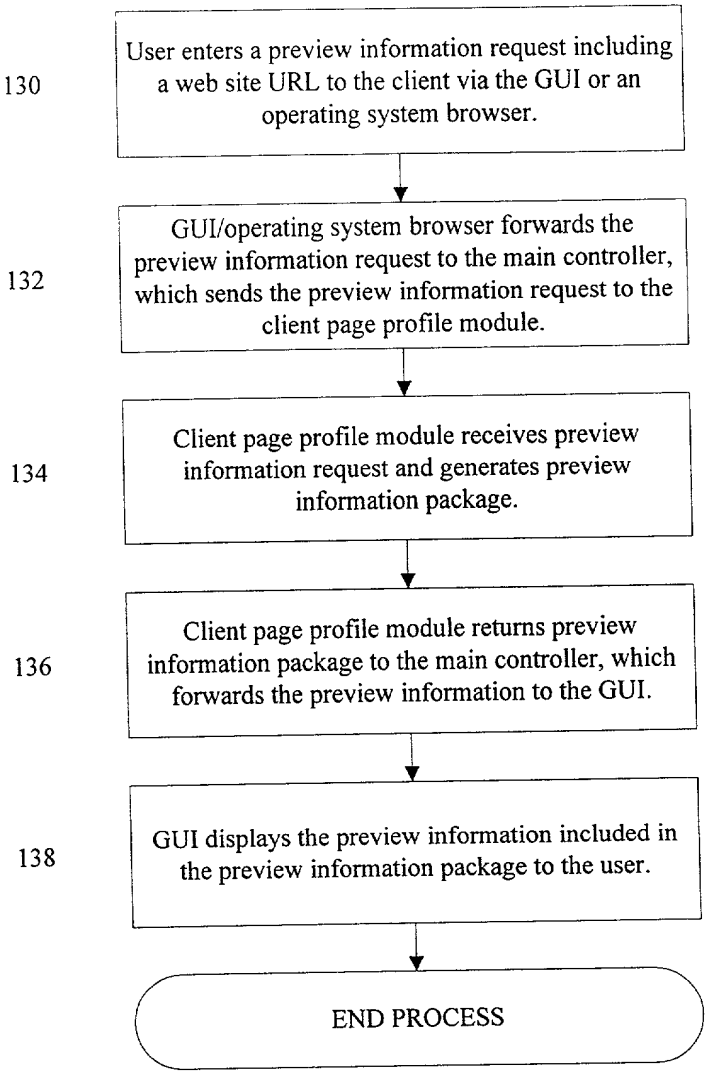
130
User enters a preview information request including a web site URL to the client via the GUI or an operating system browser.
132
GUI/operating system browser forwards the preview information request to the main controller, which sends the preview information request to the client page profile module.
134
Client page profile module receives preview information request and generates preview information package.
136
Client page profile module returns preview information package to the main controller, which forwards the preview information to the GUI.
138
GUI displays the preview information included in the preview information package to the user.
END PROCESS

FIG. 3

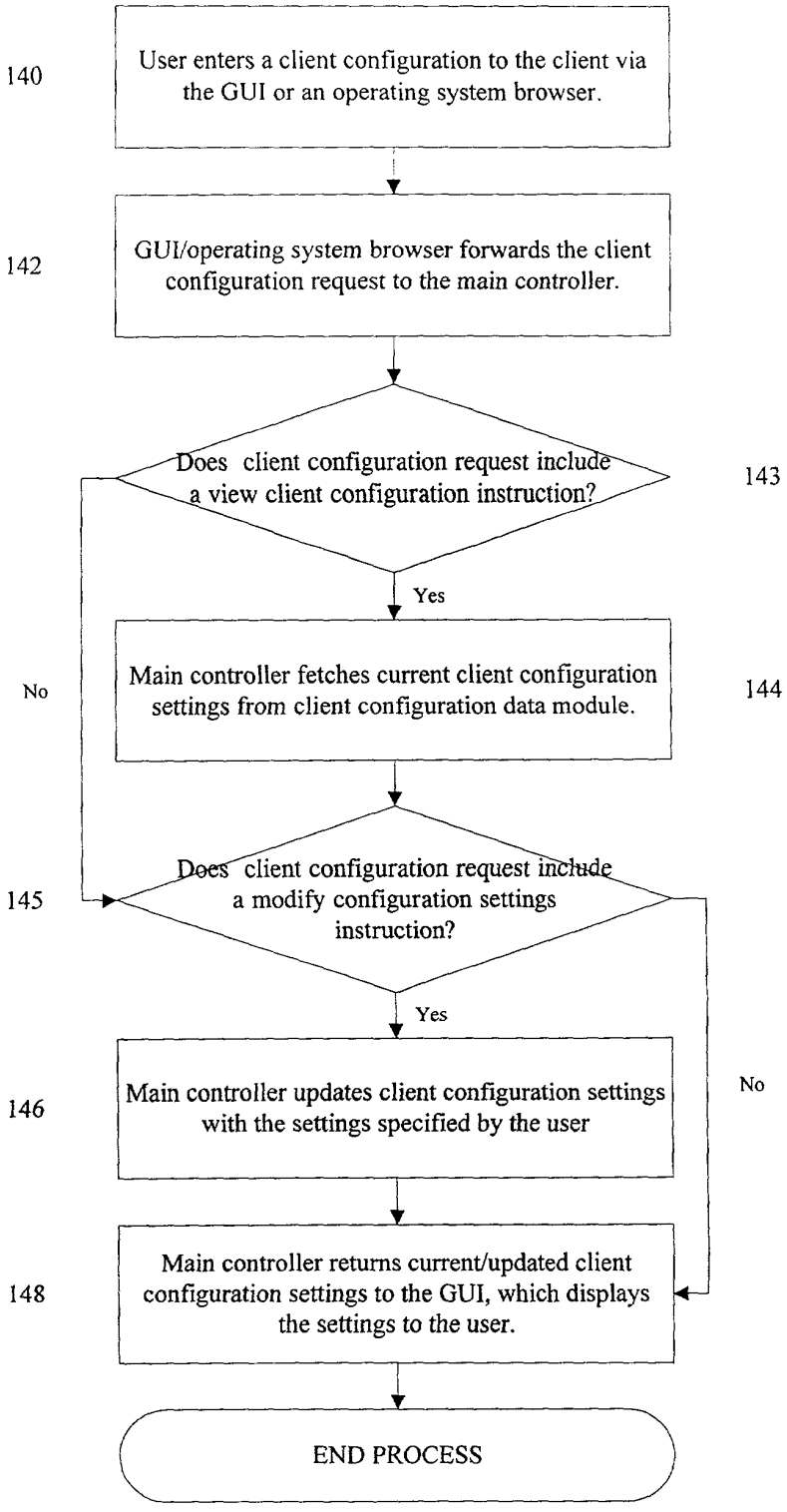
140
User enters a client configuration to the client via the GUI or an operating system browser.
142
GUI/operating system browser forwards the client configuration request to the main controller.
Does client configuration request include a view client configuration instruction?
143
Yes
No
Main controller fetches current client configuration settings from client configuration data module.
144
Does client configuration request include a modify configuration settings instruction?
145
Yes
No
Main controller updates client configuration settings with the settings specified by the user
146
Main controller returns current/updated client configuration settings to the GUI, which displays the settings to the user.
148
END PROCESS

FIG. 4

60

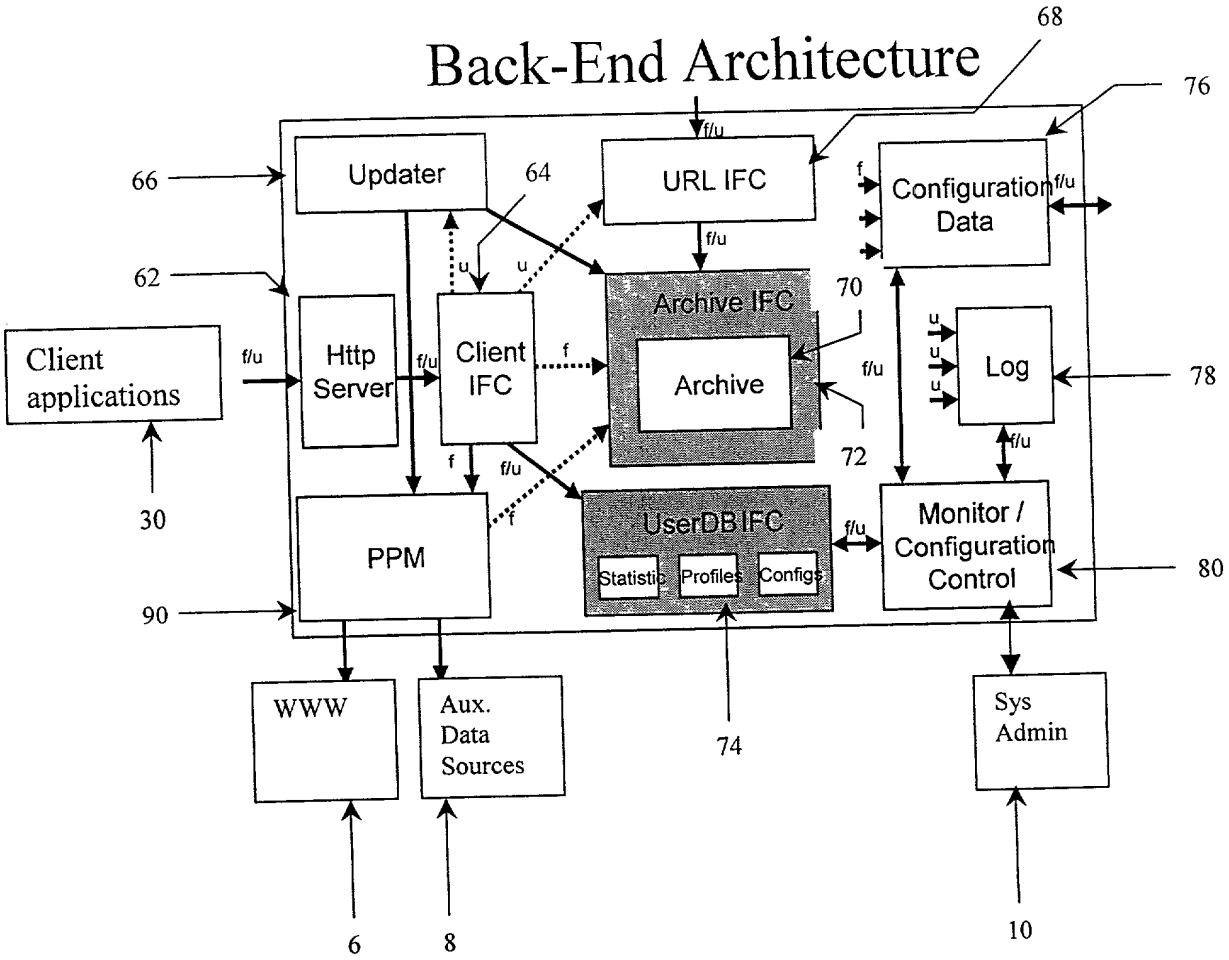
Back-End Architecture
68
76
66
Updater
64
URL IFC
f/u
Configuration Data
62
Archive IFC
70
Client applications
Http Server
Client IFC
Archive
Log
78
30
72
PPM
UserDB IFC
Statistic
Profiles
Configs
Monitor / Configuration Control
80
90
WWW
Aux. Data Sources
74
Sys Admin
6
8
10

FIG. 5

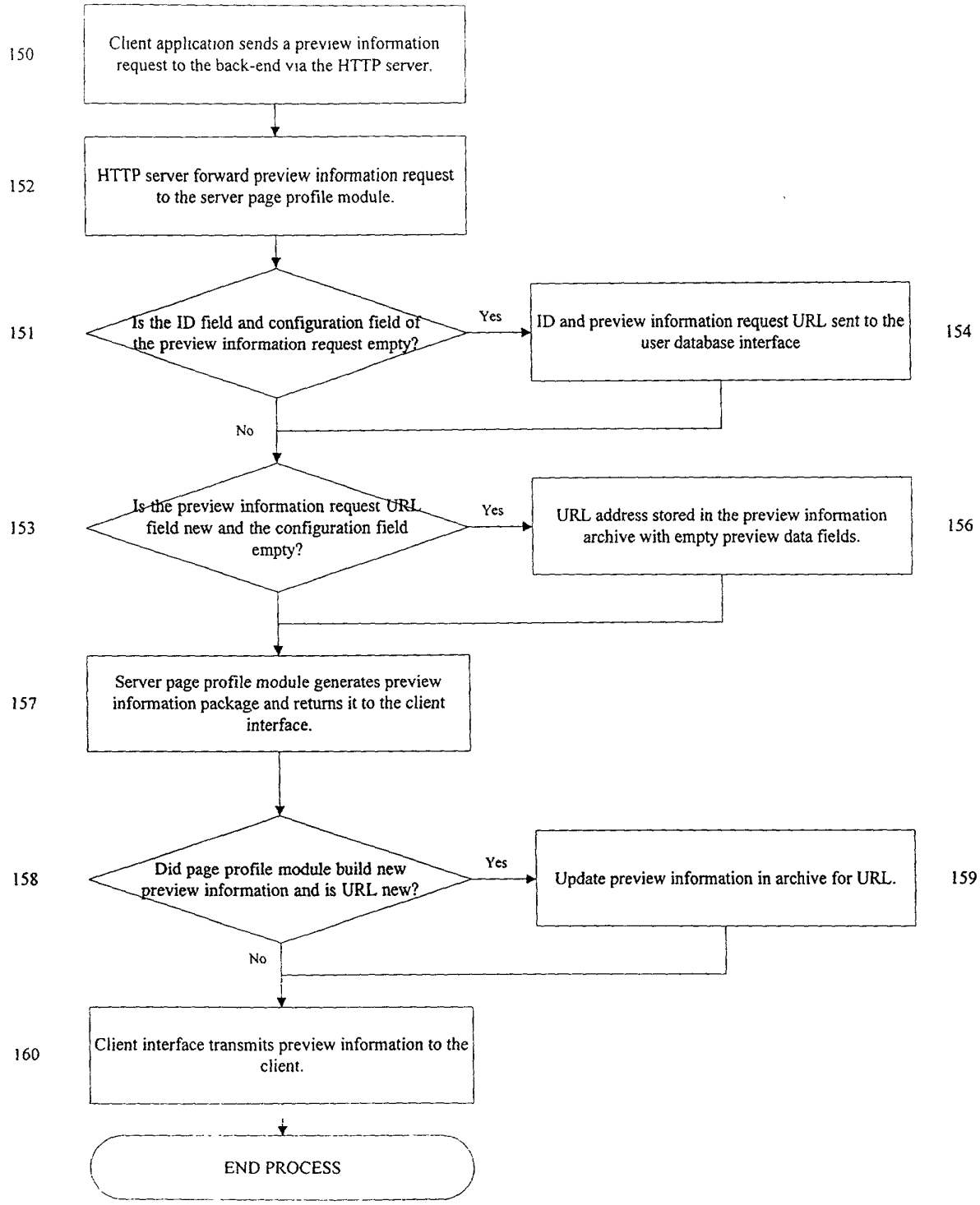
150
Client application sends a preview information request to the back-end via the HTTP server.
152
HTTP server forward preview information request to the server page profile module.
151
Is the ID field and configuration field of the preview information request empty?
Yes
ID and preview information request URL sent to the user database interface
154
No
153
Is the preview information request URL field new and the configuration field empty?
Yes
URL address stored in the preview information archive with empty preview data fields.
156
157
Server page profile module generates preview information package and returns it to the client interface.
158
Did page profile module build new preview information and is URL new?
Yes
Update preview information in archive for URL.
159
No
160
Client interface transmits preview information to the client.
END PROCESS

FIG. 6

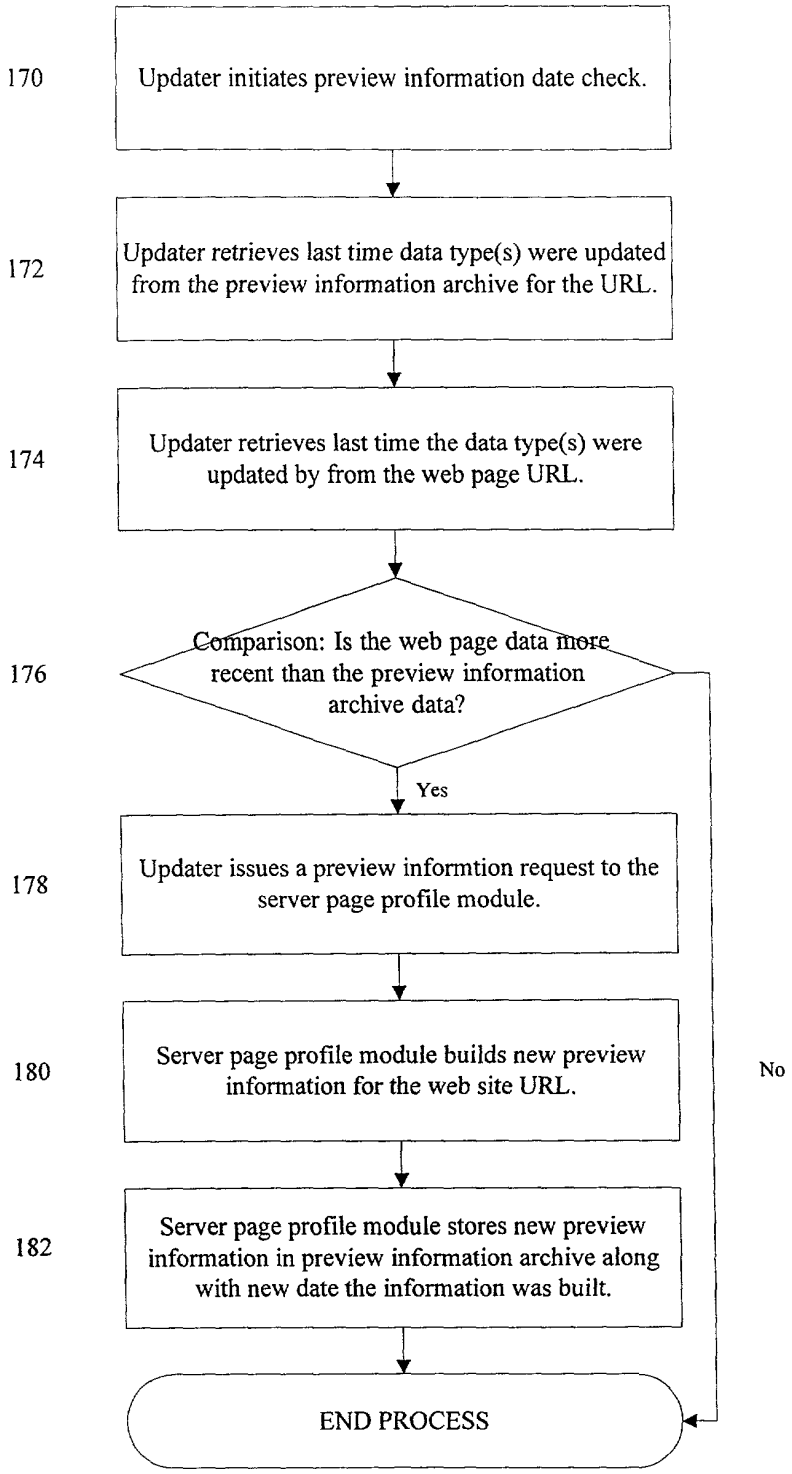
170
Updater initiates preview information date check.
172
Updater retrieves last time data type(s) were updated from the preview information archive for the URL.
174
Updater retrieves last time the data type(s) were updated by from the web page URL.
176
Comparison: Is the web page data more recent than the preview information archive data?
Yes
No
178
Updater issues a preview informtion request to the server page profile module.
180
Server page profile module builds new preview information for the web site URL.
182
Server page profile module stores new preview information in preview information archive along with new date the information was built.
END PROCESS

FIG. 7

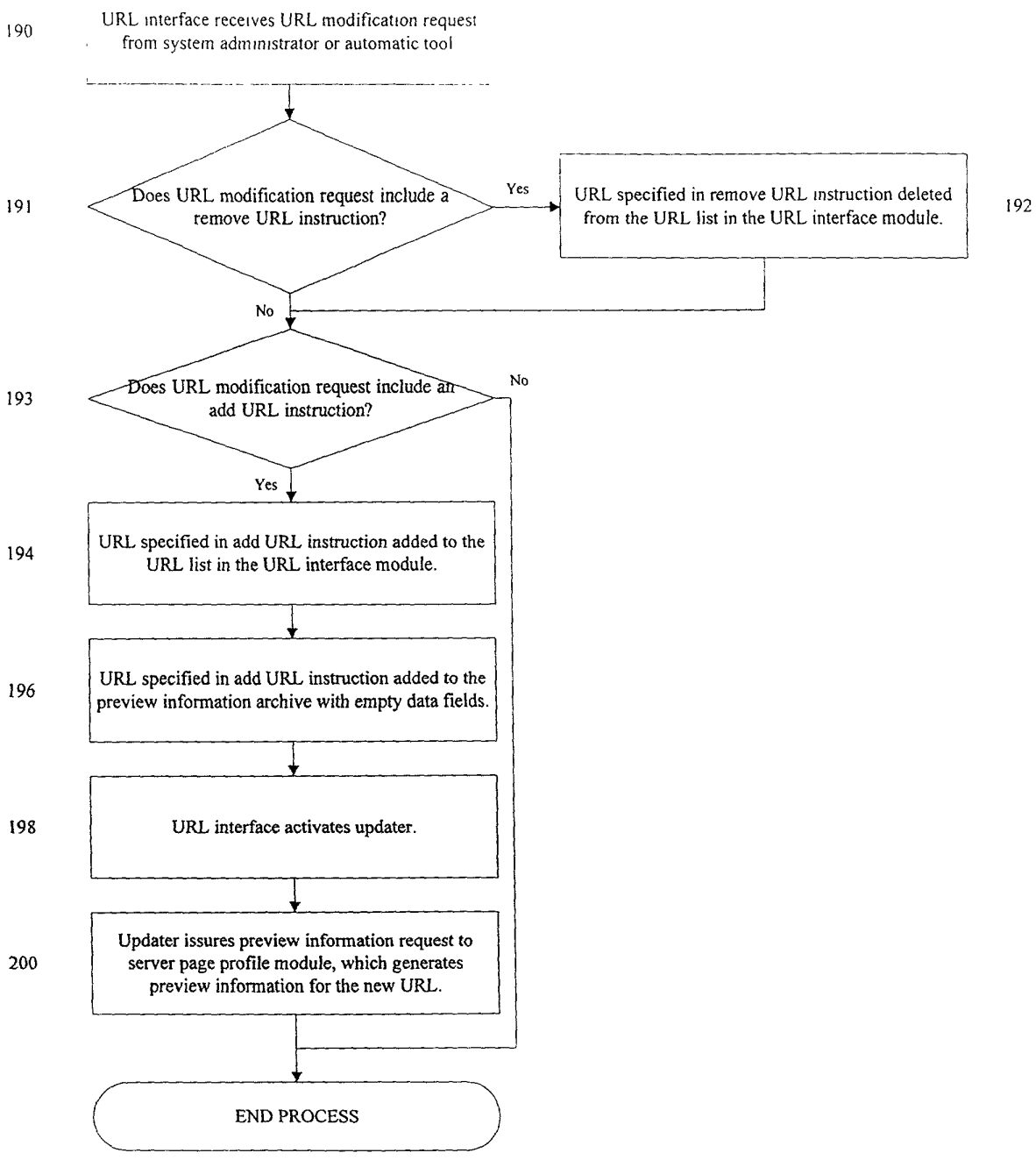
190
URL interface receives URL modification request from system administrator or automatic tool
191
Does URL modification request include a remove URL instruction?
Yes
URL specified in remove URL instruction deleted from the URL list in the URL interface module.
192
No
193
Does URL modification request include an add URL instruction?
No
Yes
194
URL specified in add URL instruction added to the URL list in the URL interface module.
196
URL specified in add URL instruction added to the preview information archive with empty data fields.
198
URL interface activates updater.
200
Updater issures preview information request to server page profile module, which generates preview information for the new URL.
END PROCESS

FIG. 8

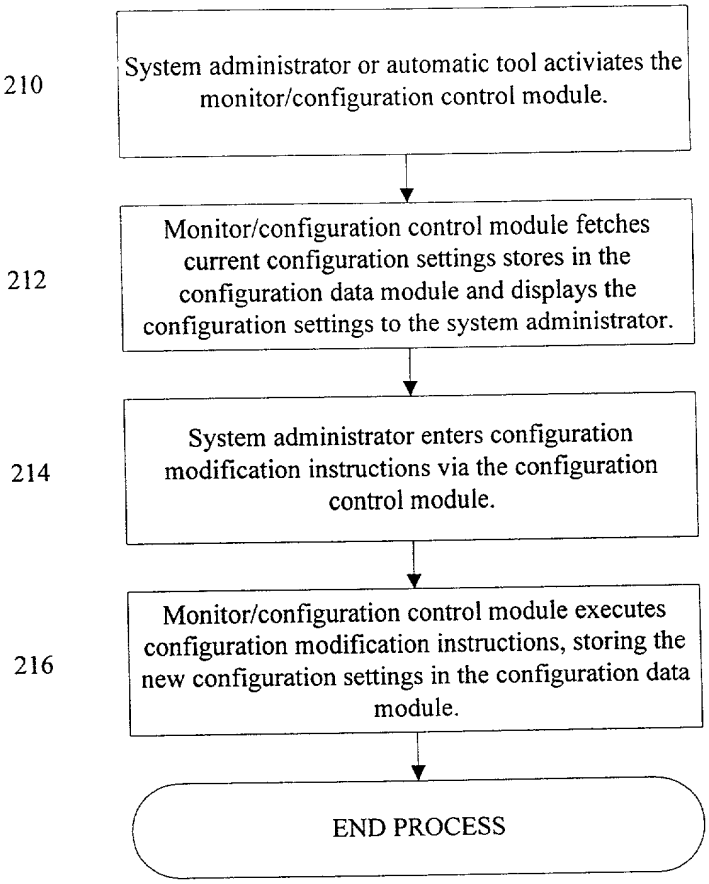
210
System administrator or automatic tool activiates the monitor/configuration control module.
212
Monitor/configuration control module fetches current configuration settings stores in the configuration data module and displays the configuration settings to the system administrator.
214
System administrator enters configuration modification instructions via the configuration control module.
216
Monitor/configuration control module executes configuration modification instructions, storing the new configuration settings in the configuration data module.
END PROCESS

FIG. 9

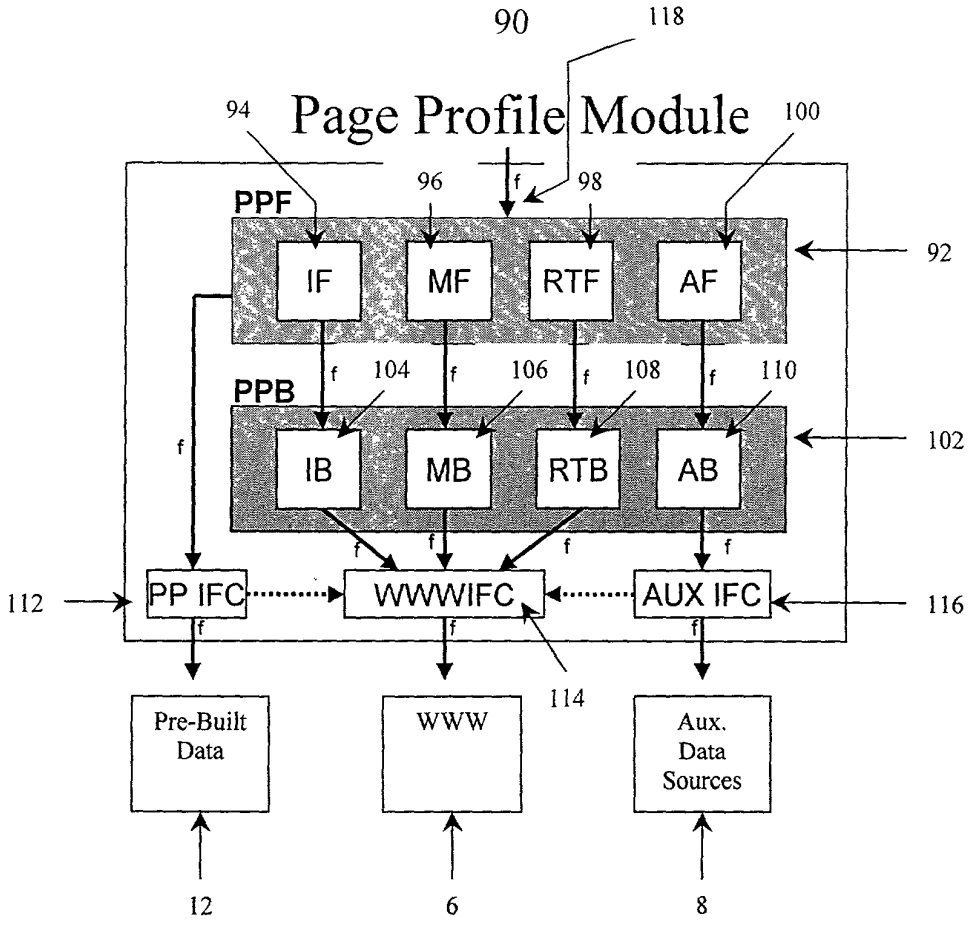
90
118
Page Profile Module
94
100
96
98
PPF
IF
MF
RTF
AF
92
PPB
104
106
108
110
IB
MB
RTB
AB
102
112
PP IFC
WWWIFC
AUX IFC
116
114
Pre-Built Data
WWW
Aux. Data Sources
12
6
8

FIG. 10

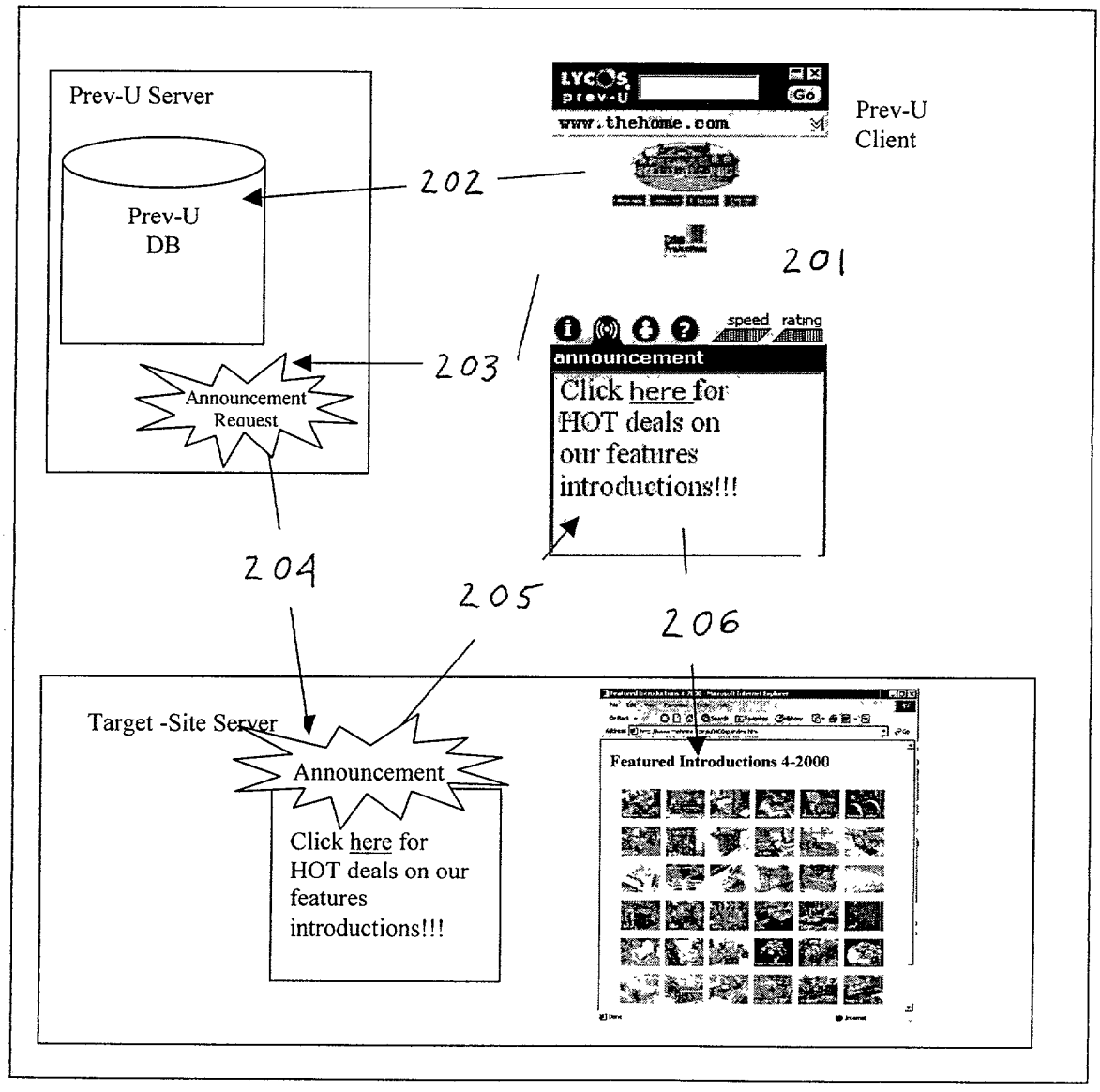
Prev-U Server
Prev-U DB
Announcement Request
202
203
204
205
206
201
LYCOS prev-U
Go
www.thehome.com
Prev-U Client
speed rating
announcement
Click here for HOT deals on our features introductions!!!
Target -Site Server
Announcement
Click here for HOT deals on our features introductions!!!
Featured Introductions 4-2000

FIG. 11